Name_____

Plants Alive!

Carefully observe your *Elodea*. Draw it in the box below:

1. In what sort of environment would *Elodea* do best? Explain why this environment is good.

   _____

2. Besides light, what else would *Elodea* need to survive?_____Why do you think this? _____

   _____

3. What animals might eat *Elodea*?_____

Look carefully at the cut end of your *Elodea.* Draw what you see on the cut end. (You are drawing a cross section of the stem.)

4. What is the purpose of the holes in the stem?_____
5. What organ in animals might serve the same function as the holes in the stem of an *Elodea*? Explain why you believe that._____

A Thought Experiment:

Five groups of students each prepare a beaker of acidic (green) BTB solution. Each group inserts a nearly identical sprig of *Elodea* into the solution. The five groups place their beakers at varying distances from a light source: 0.25 m, 0.5 m, 0.75 m, 1.0 m, 1.25 m. Each group records the time needed for its solution to return to its original green color. Students plot their data on graph. Using the chart below, predict the shape of the graph.